

AMENDMENT TO THE CLAIMS:

1. (Original) A heat sink with fins comprising:
a base plate made of a heat conductive material;
a plurality of heat dissipating fins which are positioned in heat-dissipating-fin mounting portions formed on one surface of said base plate and are jointed to said base plate by mechanical crimping; and

at least one heat pipe which is positioned in a heat-pipe mounting portion formed on an opposite surface of said base plate, portions in the vicinity of said heat pipe being crimped to joint said heat pipe to said base plate.

2. (Original) A heat sink with fins comprising:
a base plate made of a heat conductive material;
a plurality of heat dissipating fins which are positioned in heat-dissipating-fin mounting portions formed on one surface of said base plate and are jointed to said base plate by mechanical crimping; and

at least one heat pipe which is inserted into a hollow formed in said base plate, portions in the vicinity of said heat pipe being crimped to joint said heat pipe to said base plate.

3. (Previously Presented) The heat sink with fins as claimed in claim 1, wherein an end of said heat pipe extends to a predetermined position so as to provide the end of said heat pipe with another heat sink.

4. (Original) The heat sink with fins as claimed in claim 3, wherein said heat pipe is provided crossed with said heat dissipating fins, and said other heat sink comprises a plurality of heat dissipating fins with a fan provided in the vicinity of said heat dissipating fins.

5. (Original) A heat sink with fins comprising:
a base plate made of a heat conductive material;
a plurality of heat dissipating fins which are positioned in heat-dissipating-fin mounting portions formed on one surface of said base plate and are jointed to said base plate by mechanical crimping; and

RAW-0040
10/618,057

at least one heat pipe which is positioned in a heat-pipe mounting portion formed on the surface of said base plate to which said heat dissipating fins are jointed, portions in the vicinity of said heat pipe being crimped to joint said heat pipe to said base plate.

6. (Original) The heat sink with fins as claimed in claim 5, wherein said heat-pipe mounting portion comprises a heat pipe receiving portion for receiving said heat pipe and a slit portion for connecting said heat pipe receiving portion and the surface of said base plate.

7. (Original) The heat sink with fins as claimed in claim 6, wherein said heat-dissipating-fin mounting portions and said slit portion are crossed, and said heat dissipating fins, which are positioned in said heat-dissipating-fin mounting portions to be jointed to said base plate by mechanical crimping, press a part of said heat pipe.

8. (Previously Presented) The heat sink with fins as claimed in claim 5, wherein a longitudinal direction of said heat pipe is positioned crossed with a longitudinal direction of said heat dissipating fins.

9. (Previously Presented) The heat sink with fins as claimed in claim 1, wherein the surface of said base plate and a surface of said heat pipe are positioned in the same plane.

10. (Original) The heat sink with fins as claimed in claim 2, wherein said hollow is formed jutting from the surface of said base plate.

11. (Original) The heat sink with fins as claimed in claim 5, wherein said heat dissipating fins are cut off at portions corresponding to said heat pipe which is inserted into said heat-pipe mounting portion and jutting from the surface to which said heat dissipating fins are jointed.

12. (Previously Presented) The heat sink with fins as claimed in claim 1, wherein crimping of said heat pipe is performed by point crimping along a longitudinal direction of said heat pipe.

13. (Original) The heat sink with fins as claimed in claim 8, wherein crimping of said heat pipe is performed by point crimping along the longitudinal direction of said heat pipe.

14. (Previously Presented) The heat sink with fins as claimed in claim 9, wherein crimping of said heat pipe is performed by point crimping along a longitudinal direction of said heat pipe.

15. (Previously Presented) The heat sink with fins as claimed claim 1, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

16. (Original) The heat sink with fins as claimed in claim 8, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

17. (Original) The heat sink with fins as claimed in claim 9, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

18. (Canceled)

19. (Original) A heat sink with fins manufacturing method comprising the steps of:

preparing a base plate made of a heat conductive material, including on one surface of said base plate, heat-dissipating-fin mounting portions for positioning heat dissipating fins and on opposite surface of said base plate, a heat-pipe mounting portion for positioning a heat pipe;

inserting said heat pipe into said heat-pipe mounting portion of said base plate, and inserting said heat dissipating fins into said heat-dissipating-fin mounting portions; and

mechanically crimping portions in the vicinity of both sides of each of said heat-dissipating-fin mounting portions so that said heat dissipating fins and said heat pipe are jointed to said base plate.

20. (Original) The heat sink with fins manufacturing method as claimed in claim 19, wherein said heat-pipe mounting portion comprises a heat pipe receiving portion for receiving said heat pipe and a slit portion for connecting said heat pipe receiving portion and the surface of said base plate, said heat-dissipating-fin mounting portions and said slit portion are crossed, and said heat dissipating fins, which are positioned in said heat-

dissipating-fin mounting portions to be jointed to said base plate by mechanical crimping, press a part of said heat pipe.

21. (Previously Presented) The heat sink with fins as claimed in claim 2, wherein an end of said heat pipe extends to a predetermined position so as to provide the end of said heat pipe with another heat sink.

22. (Previously Presented) The heat sink with fins as claimed in claim 21, wherein said heat pipe is provided crossed with said heat dissipating fins, and said other heat sink comprises a plurality of heat dissipating fins with a fan provided in the vicinity of said heat dissipating fins.

23. (Previously Presented) The heat sink with fins as claimed in claim 1, wherein a longitudinal direction of said heat pipe is positioned crossed with a longitudinal direction of said heat dissipating fins.

24. (Previously Presented) The heat sink with fins as claimed in claim 23, wherein crimping of said heat pipe is performed by point crimping along the longitudinal direction of said heat pipe.

25. (Previously Presented) The heat sink with fins as claimed in claim 23, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

26. (Previously Presented) The heat sink with fins as claimed in claim 2, wherein a longitudinal direction of said heat pipe is positioned crossed with a longitudinal direction of said heat dissipating fins.

27. (Previously Presented) The heat sink with fins as claimed in claim 26, wherein crimping of said heat pipe is performed by point crimping along the longitudinal direction of said heat pipe.

28. (Previously Presented) The heat sink with fins as claimed in claim 26, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

29. (Previously Presented) The heat sink with fins as claimed in claim 2, wherein the surface of said base plate and a surface of said heat pipe are positioned in the same plane.

KAW-0040
10/618,057

5

30. (Previously Presented) The heat sink with fins as claimed in claim 29, wherein crimping of said heat pipe is performed by point crimping along a longitudinal direction of said heat pipe.

31. (Previously Presented) The heat sink with fins as claimed in claim 29, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

32. (Previously Presented) The heat sink with fins as claimed in claim 2, wherein crimping of said heat pipe is performed by point crimping along a longitudinal direction of said heat pipe.

33. (Previously Presented) The heat sink with fins as claimed in claim 5, wherein crimping of said heat pipe is performed by point crimping along a longitudinal direction of said heat pipe.

34. (Previously Presented) The heat sink with fins as claimed in claim 2, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

35. (Previously Presented) The heat sink with fins as claimed in claim 5, wherein crimping of said heat pipe is performed by slit crimping with slits which are perpendicular to the longitudinal direction of said heat pipe.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ **BLACK BORDERS**

☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**

☐ **FADED TEXT OR DRAWING**

☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**

☐ **SKEWED/SLANTED IMAGES**

☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**

☐ **GRAY SCALE DOCUMENTS**

☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**

☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**

☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.